

**Appels à propositions dans le cadre du programme européen pour la recherche et l'innovation
« HORIZON EUROPE »**

Climat, Mobilité, Energie

Destination - Sciences climatiques et réponses pour la transformation vers une neutralité climatique

Titre	Type	Budget	Date d'ouverture	Date limite
Sciences climatiques et réponses				
HORIZON-CL5-2022-D1-01-01-two-stage: Carbon Dioxide Removal (CDR) approaches	RIA	21 M€	12-10-21	10/02/2022 puis 27/09/2022
HORIZON-CL5-2022-D1-01-02-two-stage: Socio-economic risks of climate change in Europe	RIA	10 M€		
HORIZON-CL5-2022-D1-01-03-two-stage: Social science for land-use strategies in the context of climate change and biodiversity challenges	RIA	20 M€		
HORIZON-CL5-2022-D1-02-01: Verification and reconciliation of estimates of climate forcers	RIA	15 M€		
HORIZON-CL5-2022-D1-02-02: Development of high-resolution Earth system models for global and regional climate change projections	RIA	20 M€		
HORIZON-CL5-2022-D1-02-03: Improvement of Integrated Assessment Models in support of climate policies	RIA	15 M€	12-10-21	10-02-22
HORIZON-CL5-2022-D1-02-04: Supporting the formulation of adaptation strategies through improved climate predictions in Europe and beyond	RIA	20 M€		
HORIZON-CL5-2022-D1-02-05: Let nature help do the job: Rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support	RIA	17 M€		

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Climat, Mobilité, Energie

Destination - Solutions transsectorielles pour la transition climatique

Titre	Type	Budget	Date d'ouverture	Date limite
Solutions transsectorielles pour la transition climatique				
HORIZON-CL5-2022-D2-01-01: Sustainable processing and refining of battery grade graphite (Batteries Partnership)	IA	10 M€	28-04-22	06-09-22
HORIZON-CL5-2022-D2-01-02: Interface and electron monitoring for the engineering of new and emerging battery technologies (Batteries Partnership)	RIA	10 M€		
HORIZON-CL5-2022-D2-01-03: Furthering the development of a materials acceleration platform for sustainable batteries (combining AI, big data, autonomous synthesis robotics, high throughput testing) (Batteries Partnership)	RIA	20 M€		
HORIZON-CL5-2022-D2-01-04: Towards creating an integrated manufacturing value chain in Europe: from machinery development to plant and site integrated design (Batteries Partnership)	IA	15 M€		
HORIZON-CL5-2022-D2-01-05: Next generation technologies for High-performance and safe-by-design battery systems for transport and mobile applications (Batteries Partnership)	RIA	15 M€		
HORIZON-CL5-2022-D2-01-06: Embedding smart functionalities into battery cells (embedding sensing and self-healing functionalities to monitor and self-repair battery cells) (Batteries Partnership)	RIA	15 M€		
HORIZON-CL5-2022-D2-01-07: Digitalisation of battery testing, from cell to system level, including lifetime assessment (Batteries Partnership)	RIA	15 M€		
HORIZON-CL5-2022-D2-01-08: Coordination of large-scale initiative on future battery technologies (Batteries Partnership)	CSA	3 M€		
HORIZON-CL5-2022-D2-01-09: Physics and data-based battery management for optimised battery utilisation (Batteries Partnership)	RIA	15 M€		
HORIZON-CL5-2022-D2-01-10: Streamlined collection and reversed logistics, fully automated, safe and cost-efficient sorting, dismantling and second use before recycling (Batteries Partnership)	RIA	15 M€		

HORIZON-CL5-2022-D2-01-11: CIVITAS 2030 – Coordination and support for EU funded urban mobility innovation	CSA	5 M€		
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Climat, Mobilité, Energie

Destination - Offre d'énergie durable, sûre et compétitive

Titre	Type	Budget	Date d'ouverture	Date limite
Offre d'énergie durable, sûre et compétitive				
HORIZON-CL5-2021-D3-02-01: Demonstration of wave energy devices to increase experience in real sea condition	IA	15 M€	24-06-21	05-01-22
HORIZON-CL5-2021-D3-02-02: Sustainability and educational aspects for renewable energy and renewable fuel technologies	CSA	10 M€		
HORIZON-CL5-2021-D3-02-03: Market Uptake Measures of renewable energy systems	CSA	10 M€		
HORIZON-CL5-2021-D3-02-04: Novel tandem, high efficiency Photovoltaic technologies targeting low cost production with earth abundant materials	RIA	20 M€		
HORIZON-CL5-2021-D3-02-05: Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems	IA	30 M€		
HORIZON-CL5-2021-D3-02-06: Increasing energy system flexibility based on sector-integration services to consumers (that benefits system management by DSOs and TSOs)	IA	25 M€		
HORIZON-CL5-2021-D3-02-07: Reliability and resilience of the grid: Measures for vulnerabilities, failures, risks and privacy	IA	15 M€		
HORIZON-CL5-2021-D3-02-08: Electricity system reliability and resilience by design: High-Voltage, Direct Current (HVDC) based systems and solutions	RIA	15 M€		
HORIZON-CL5-2021-D3-02-09: Demonstration of superconducting systems and elpipes	IA	15 M€		
HORIZON-CL5-2021-D3-02-10: Demonstration of advanced Power Electronics for application in the energy sector	IA	10 M€		
HORIZON-CL5-2021-D3-02-11: Reinforcing digitalisation related know how of local energy ecosystems	CSSA	4 M€		
HORIZON-CL5-2021-D3-02-12: Integration of CCUS in hubs and clusters, including knowledge sharing activities	CSA	2 M€		
HORIZON-CL5-2021-D3-02-13: Cost reduction of CO2 capture (new or improved technologies)	RIA	30 M€		

HORIZON-CL5-2021-D3-02-14: Support to the activities of the European Geological Services	CSA	20 M€		
HORIZON-CL5-2021-D3-02-15: Support to the activities of the ETIPs and technology areas of the SET Plan	CSA	9,8 M€		
HORIZON-CL5-2021-D3-03-01: AU-EU Water Energy Food Nexus	RIA	5 M€		
HORIZON-CL5-2021-D3-03-02: Next generation of renewable energy technologies	RIA	33 M€		
HORIZON-CL5-2021-D3-03-03: Hybrid catalytic conversion of renewable energy to carbon-neutral fuels	RIA	10 M€		
HORIZON-CL5-2021-D3-03-04: Physics and aerodynamics of atmospheric flow of wind for power production	RIA	18 M€		
HORIZON-CL5-2021-D3-03-05: Wind energy in the natural and social environment	RIA	10 M€		
HORIZON-CL5-2021-D3-03-06: Novel approaches to concentrated solar power (CSP)	RIA	9 M€		
HORIZON-CL5-2021-D3-03-07: Stable high-performance Perovskite Photovoltaics	RIA	15 M€		
HORIZON-CL5-2021-D3-03-08: Cost-effective micro-CHP and hybrid heating systems	RIA	10 M€		
HORIZON-CL5-2021-D3-03-09: Carbon-negative sustainable biofuel production	RIA	15 M€		
HORIZON-CL5-2021-D3-03-10: Innovative foundations, floating substructures and connection systems for floating PV and ocean energy devices	RIA	10 M€	02-09-21	23-02-22
HORIZON-CL5-2021-D3-03-11: Development of hydropower equipment for hidden hydropower	RIA	10 M€		
HORIZON-CL5-2021-D3-03-12: Innovation on floating wind energy deployment optimized for deep waters and different sea basins (Mediterranean Sea, Black Sea, Baltic Sea, North-east Atlantic Ocean)	IA	50 M€		
HORIZON-CL5-2021-D3-03-13: Demonstration pilot lines for alternative and innovative PV technologies (Novel c-Si tandem, thin film tandem, bifacial, CPV, etc.)	IA	45 M€		
HORIZON-CL5-2021-D3-03-14: Demonstration of large-scale CHP technologies for a shift to the use of biogenic residues and wastes	IA	10 M€		
HORIZON-CL5-2021-D3-03-15: Solutions for more sustainable geothermal energy	RIA	10 M€		
HORIZON-CL5-2021-D3-03-16: Innovative biomethane production as an energy carrier and a fuel	IA	20 M€		
HORIZON-CL5-2022-D3-01-01: Demonstration of cost-effective advanced biofuel technologies utilizing existing industrial plants	IA	20 M€		

HORIZON-CL5-2022-D3-01-02: Demonstration of innovative materials, supply cycles, recycling technologies to increase the overall circularity of wind energy technology and to reduce the primary use of critical raw materials	IA	40 M€		
HORIZON-CL5-2022-D3-01-03: Advanced manufacturing of Integrated PV	IA	32 M€		
HORIZON-CL5-2022-D3-01-04: Demonstrate the use of high temperature geothermal reservoirs to provide energy storage for the energy system	IA	20 M€		
HORIZON-CL5-2022-D3-01-05: Demonstration of innovative plug-and play solutions for system management and renewables storage in off-grid applications	IA	10 M€		
HORIZON-CL5-2022-D3-01-06: Novel Agro-Photovoltaic systems	IA	10 M€		
HORIZON-CL5-2022-D3-01-07: Demonstration of innovative rotor, blades and control systems for tidal energy devices	IA	10 M€		
HORIZON-CL5-2022-D3-01-08: Supporting the action of consumers in the energy market and guide them to act as prosumers, communities and other active forms of active participation in the energy activities	IA	18 M€	14-10-21	26-04-22
HORIZON-CL5-2022-D3-01-09: Real Time Demonstrator of Multi-Vendor Multi-Terminal VSC-HVDC with Grid Forming Capability (in support of the offshore strategy)	IA	55 M€		
HORIZON-CL5-2022-D3-01-10: Interoperable solutions for flexibility services using distributed energy storage	IA	7 M€		
HORIZON-CL5-2022-D3-01-11: Demonstration of innovative forms of storage and their successful operation and integration into innovative energy systems and grid architectures	IA	30 M€		
HORIZON-CL5-2022-D3-01-12: Replicable solutions for a cross sector compliant energy ecosystem	IA	35 M€		

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Climat, Mobilité, Energie

Destination - Utilisation de l'énergie efficace, durable et inclusive

Titre	Type	Budget	Date d'ouverture	Date limite
Utilisation de l'énergie efficace, durable et inclusive				
HORIZON-CL5-2021-D4-02-01: Demonstrating integrated technology solutions for buildings with performance guarantees (Built4People)	IA	15 M€	02-09-21	25-01-22
HORIZON-CL5-2021-D4-02-02: Cost-effective, sustainable multi-functional and/or prefabricated holistic renovation packages, integrating RES and including re-used and recycled materials (Built4People)	IA	22 M€		
HORIZON-CL5-2021-D4-02-03: Strengthening European coordination and exchange for innovation uptake towards sustainability, quality, circularity and social inclusion in the built environment as a contribution to the new European Bauhaus (Built4People)	CSA	1 M€		
HORIZON-CL5-2022-D4-01-01: Demand response in energy-efficient residential buildings	IA	12 M€	28-04-22	06-09-22
HORIZON-CL5-2022-D4-01-02: Renewable-intensive, energy positive homes	IA	12 M€		
HORIZON-CL5-2022-D4-01-03: Smarter buildings for better energy performance	IA	12 M€		
HORIZON-CL5-2022-D4-01-04: Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C	RIA	10 M€		
HORIZON-CL5-2022-D4-01-05: Development of high temperature thermal storage for industrial applications	RIA	8 M€		
HORIZON-CL5-2022-D4-02-01: Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation (Built4People)	IA	15 M€		
HORIZON-CL5-2022-D4-02-02: Solutions for the sustainable, resilient, inclusive and accessible regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Built4People)	IA	15 M€		

HORIZON-CL5-2022-D4-02-03: Sustainable and resource-efficient solutions for an open, accessible, inclusive, resilient and low-emission cultural heritage: prevention, monitoring, management, maintenance, and renovation (Built4People)	RIA	20 M€	06-09-22	24-01-23
HORIZON-CL5-2022-D4-02-04: Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People)	IA	18 M€		
HORIZON-CL5-2022-D4-02-05: More sustainable buildings with reduced embodied energy / carbon, high life-cycle performance and reduced life-cycle costs (Built4People)	IA	18 M€		



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Climat, Mobilité, Energie

Destination - Solutions propres et compétitives pour tous les modes de transport

Titre	Type	Budget	Date d'ouverture	Date limite
Solutions propres et compétitives pour tous les modes de transport				
HORIZON-CL5-2022-D5-01-01: Exploiting electrical energy storage systems and better optimising large battery electric power within fully battery electric and hybrid ships (ZEWT Partnership)	IA	16 M€	02-12-21	26-04-22
HORIZON-CL5-2022-D5-01-02: Innovative energy storage systems on-board vessels (ZEWT Partnership)	RIA	15 M€		
HORIZON-CL5-2022-D5-01-03: Exploiting renewable energy for shipping, in particular focusing on the potential of wind energy (ZEWT Partnership)	RIA	18 M€		
HORIZON-CL5-2022-D5-01-04: Transformation of the existing fleet towards greener operations through retrofitting (ZEWT Partnership)	IA	25 M€		
HORIZON-CL5-2022-D5-01-05: Seamless safe logistics through an autonomous waterborne freight feeder loop service	RIA	15 M€		
HORIZON-CL5-2022-D5-01-06: Computational tools for shipbuilding	IA	7 M€		
HORIZON-CL5-2022-D5-01-07: Prevent smog episodes in Europe: Air quality impact of engine-emitted volatile, semi volatile and secondary particles	RIA	7 M€		
HORIZON-CL5-2022-D5-01-08: Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV) for efficient and economic operation (2ZERO)	IA	58 M€		
HORIZON-CL5-2022-D5-01-09: Nextgen EV components: High efficiency and low cost electric motors for circularity and low use of rare resources (2ZERO)	RIA	20 M€		
HORIZON-CL5-2022-D5-01-10: New generation of full electric urban and peri-urban Bus Rapid Transit systems to strengthen climate-friendly mass transport (2ZERO)	IA	25 M€		

[HORIZON-CL5-2022-D5-01-11: Stimulating Road Transport research and innovation dissemination and implementation in Europe and around the World](#)

CSA

2 M€



Association Occitanie Europe

Rond-point Schuman, 14 - 1040 Bruxelles
T +32 (0) 2 280 09 19 F +32 (0) 2 230 67 83
office@occitanie-europe.eu

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Climat, Mobilité, Energie

Destination - Transport résilient et sûr et services de mobilité intelligente pour les passagers et les biens

Titre	Type	Budget	Date d'ouverture	Date limite
Transport résilient et sûr et services de mobilité intelligente pour les passagers et les biens				
HORIZON-CL5-2022-D6-01-01: European demonstrators for integrated shared automated mobility solutions for people and goods (CCAM Partnership)	IA	50 M€		
HORIZON-CL5-2022-D6-01-02: Reliable occupant protection technologies and HMI solutions to ensure the safety of highly automated vehicles (CCAM Partnership)	RIA	8 M€		
HORIZON-CL5-2022-D6-01-03: Human behavioural model to assess the performance of CCAM solutions compared to human driven vehicles (CCAM Partnership)	RIA	8 M€		
HORIZON-CL5-2022-D6-01-04: Integrate CCAM services in fleet and traffic management systems (CCAM Partnership)	IA	10 M€	14-10-21	12-01-22
HORIZON-CL5-2022-D6-01-05: Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM (CCAM Partnership)	RIA	12 M€		
HORIZON-CL5-2022-D6-01-06: Predictive safety assessment framework and safer urban environment for vulnerable road users	RIA	13 M€		
HORIZON-CL5-2022-D6-01-07: More resilient aircraft and increased survivability	IA	9 M€		
HORIZON-CL5-2022-D6-01-08: Safer navigation and tackling containership fires	IA	12 M€		
HORIZON-CL5-2022-D6-02-01: Logistics networks integration and harmonisation through operational connectivity to optimise freight flows and drive logistics to climate neutrality	IA	15 M€		
HORIZON-CL5-2022-D6-02-02: Urban logistics and planning: anticipating urban freight generation and demand including digitalisation of urban freight	IA	15 M€		
HORIZON-CL5-2022-D6-02-03: Smart enforcement for resilient, sustainable and more efficient transport operations	RIA	8 M€		
HORIZON-CL5-2022-D6-02-04: Accelerating the deployment of new and shared mobility services for the next decade	IA	20 M€	28-04-22	06-09-22